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**ABUNDANCE OF CHAOBORUS  
LARVAE IN CHUB LAKE:  
SAMPLING METHODS AND  
1982 DATA**

**D.C.Lasenby, K.Morris and N.D.Yan**



**DATA REPORT DR 86/3**



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## DATA REPORT SERIES

The data presented in this report were collected by staff of the Water Resources Branch of the Ontario Ministry of the Environment or their contractees as part of a Lakeshore Capacity Study or the Acid Precipitation in Ontario Study. This unreviewed report does not necessarily reflect the views or opinions of the Ontario Ministry of the Environment.

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ABUNDANCE OF CHAOBORUS LARVAE IN CHUB LAKE:  
SAMPLING METHODS AND 1982 DATA

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DATA REPORT DR 86/3

## PREFACE

The unpublished Data Report Series is intended as a readily available source of basic data collected for lakes and watersheds in the Muskoka-Haliburton area of Ontario. These data were collected as part of the Lakeshore Capacity Study and/or the Acid Precipitation in Ontario Study.

The limnological portion of the lakeshore Capacity Study (1975-1981) was initiated to investigate the relationships between lakeshore development and lake trophic status in low ionic strength Precambrian lakes. The Acid Precipitation in Ontario Study (1979-present) was initiated, in part, to investigate the effects of deposition of strong acids on aquatic and terrestrial ecosystems in Ontario. The primary findings of these studies have been and will continue to be published as reviewed papers and technical reports.

# ABSTRACT

This report presents detailed data on the abundance of the larvae of three species of Chaoborus in Chub Lake, Ontario in 1982.

Lasenby, D.C., K. Morris and N.D. Yan. 1986. Abundance of Chaoborus Larvae in Chub Lake: Sampling Methods and 1982 Data. Ont. Min. Envir. Data Report DR 86/3.

## 1. Introduction

The larvae of the phantom midge Chaoborus (Diptera: Chaoboridae) is the only representative of the Insecta that is an important zooplankter in ponds and lakes. Synoptic surveys indicate that Chaoborus abundance varies substantially among lakes in eastern North America in general (Carter et al. 1980), and among lakes studied by the Ontario Ministry of the Environment as part of the Acid Precipitation in Ontario Study (APIOS) in particular (Yan et al. 1985). Chaoborus larvae are ambush predators that may, at times, exert a large demographic influence on their preferred prey-planktonic Rotifera and microcrustacea (Lynch 1979), and they are important dietary items for fish. Because of this, and because descriptions of the demographics, distribution, and productivity of Chaoborus larvae are generally not available for soft water lakes in Ontario, a detailed study of the life history of Chaoborus in an APIOS study lake (Chub Lake) was initiated in 1982. The results of this study will be reported elsewhere. Field collection methods and Chaoborus abundance data are presented in detail in this report.

## 2. Sample collection and enumeration

Chub Lake has an area of 32.2 ha, a mean depth of 8.9 m and a maximum depth of 27 m. It is located 8 km southwest of Dorset, Ontario at 45 13'N and 78 59'W. Nicolls et al. (1983) provide detailed bathymetric information.

The lake was sampled at 8 stations indicated in Fig. 1, on a weekly basis from June 3 to August 31, 1982, and thereafter on a bi-weekly basis until October 28. Separate samples were taken through 5 m depth increments to the sediment surface at each station using a closing Wisconsin net (50 cm diameter) constructed of #10 mesh (153  $\mu$ m). All samples were separated and preserved in 5% Formalin.

All samples were examined in their entirety unless more than 350 individuals were encountered in which case the samples were split in half. Identifications followed Saether (1972), and were confirmed by A. Borkent, Agriculture Canada, Ottawa, Ontario. Instars were separated by head capsule lengths (Table 2).

### 3. Data Presentation

Chub Lake supported 3 Chaoborus species in 1982 C. punctipennis, C. flavicans and C. trivittatus. These are the three most frequently encountered species in Ontario (Carter et al. 1980). In Tables 2 to 52, we present both the actual number of animals captured and the abundance (animals/m<sup>2</sup>) of each instar of each of the three species on each sampling date. In each table a dash (-) is used where the indicated depth interval does not exist for that station. A zero (0) is used where no animals were caught. If one animal was captured, the areal abundance would be 5.1 animals/m<sup>2</sup>.

### References

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larvae more abundant in acidified Canadian lakes? Hol. Ecol.  
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Tables are presented chronologically.

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Each of 17 tables presents data for a single date.  
Tables are presented chronologically.

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station in Chub Lake from June 3 to October 28, 1982.  
Each of 17 tables presents data for a single date.  
Tables are presented chronologically.

Figure 1.

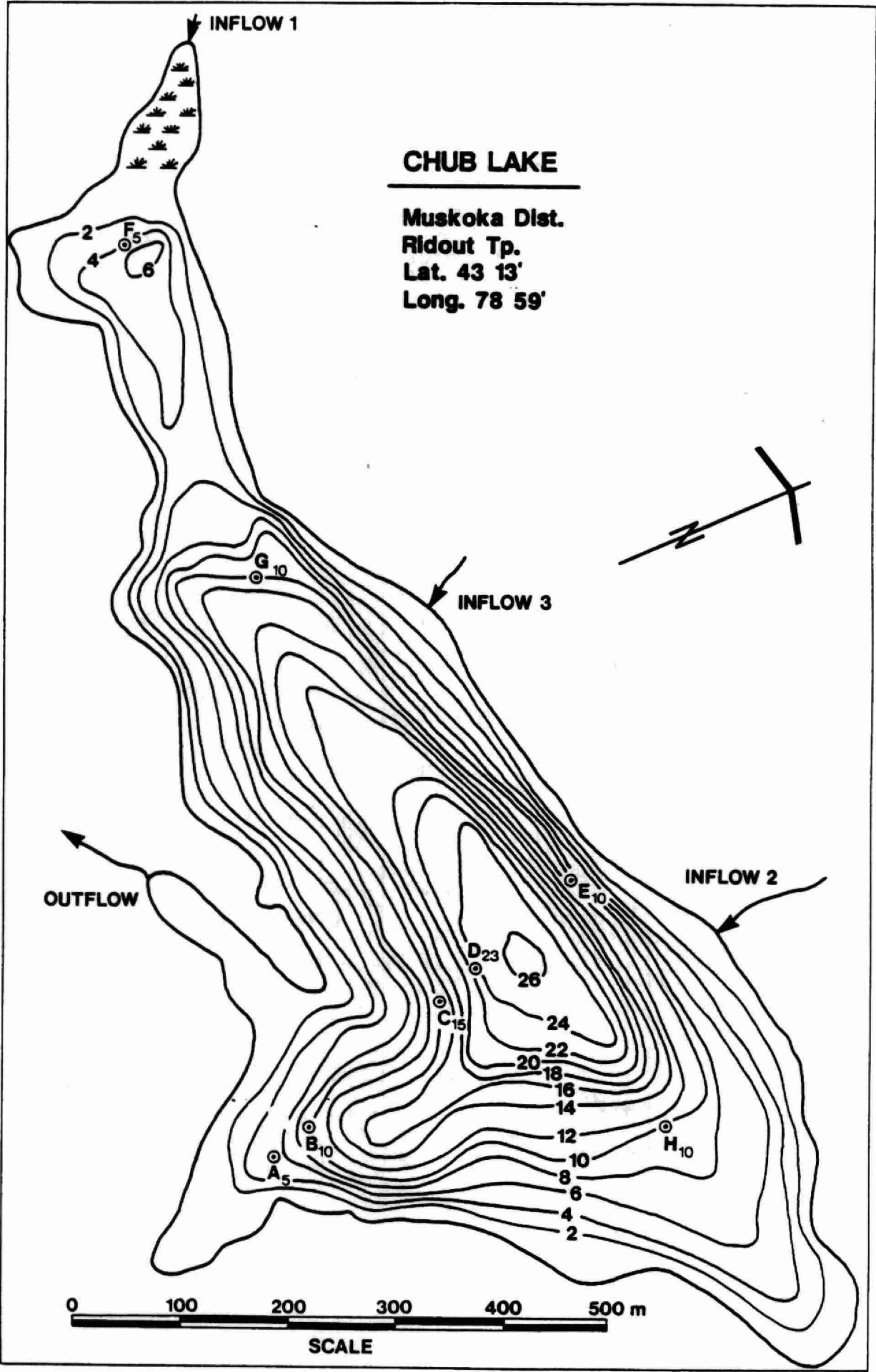


Table 1 Head capsule length of three species of  
Chaoborus from Chub Lake

A) Chaoborus punctipennis

| Instar | Number of<br>Animals | Mean in<br>mm | Standard<br>Error |
|--------|----------------------|---------------|-------------------|
| 1      | 74                   | .23           | .0038             |
| 2      | 1539                 | .37           | .0003             |
| 3      | 4997                 | .64           | .0274             |
| 4      | 5865                 | 1.09          | .0490             |

B) Chaoborus flavicans

| Instar | Number of<br>Animals | Mean in<br>mm | Standard<br>Error |
|--------|----------------------|---------------|-------------------|
| 1      | 772                  | .31           | .0007             |
| 2      | 904                  | .57           | .0026             |
| 3      | 1304                 | .85           | .0013             |
| 4      | 543                  | 1.30          | .0033             |

C) Chaoborus trivittatus

| Instar | Number of<br>Animals | Mean in<br>mm | Standard<br>Error |
|--------|----------------------|---------------|-------------------|
| 1      | 30                   | .31           | .0052             |
| 2      | 125                  | .52           | .0050             |
| 3      | 533                  | 1.11          | .0042             |
| 4      | 939                  | 1.82          | .0034             |

TABLE 2

Chub Lake Chaoborus  
 SPECIES: Chaoborus punctipennis  
 DATE: 8/6/82

| INSTAR | DEPTH(N) | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | g/N*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | g/N*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | g/N*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| fourth | 0-5      | 45                | 28    | 41    | 78    | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 2     | 5     | 9     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 45                | 30    | 46    | 87    | 0     | 0    | 0     | 0     | 208              |
|        | g/N*2    | 229.5             | 153   | 234.6 | 443.7 | 0     | 0    | 0     | 0     |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 45                | 30    | 46    | 87    | 0     | 0    | 0     | 0     | 208              |
| g/N*2  |          | 229.5             | 153   | 234.6 | 443.7 | 0     | 0    | 0     | 0     |                  |

TABLE 3

Chub Lake Chaoborus:

SPECIES: Chaoborus punctipennis

DATE: 3/6/82

| INSTAR        | DEPTH(N)      | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|               | $\bar{N}/N^2$ | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second        | 0-5           | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|               | $\bar{N}/N^2$ | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third         | 0-5           | 1                 | 0     | 0     | 2     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 1                 | 0     | 0     | 2     | 0     | 0    | 0     | 0     | 3                |
|               | $\bar{N}/N^2$ | 5.1               | 0     | 0     | 10.2  | 0     | 0    | 0     | 0     |                  |
| fourth        | 0-5           | 30                | 33    | 56    | 60    | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 3     | 0     | 17    | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 3     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 5     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 3     | -     | -    | -     | -     |                  |
|               | Total         | 30                | 36    | 56    | 88    | 0     | 0    | 0     | 0     | 210              |
|               | $\bar{N}/N^2$ | 153               | 183.6 | 285.6 | 448.8 | 0     | 0    | 0     | 0     |                  |
| <hr/>         |               |                   |       |       |       |       |      |       |       |                  |
| TOTAL         |               | 31                | 36    | 56    | 90    | 0     | 0    | 0     | 0     | 213              |
| $\bar{N}/N^2$ |               | 158.1             | 183.6 | 285.6 | 459   | 0     | 0    | 0     | 0     |                  |

TABLE 4

Chub Lake Chaoborus

SPECIES: Chaoborus punctipennis

DATE: 13/6/82

| INSTAR | DEPTH(N) | STATION (DEPTH N) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first  | 0-5      | 3                 | 1     | 2     | 0     | 0     | 22    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 3                 | 1     | 2     | 0     | 0     | 22    | 0     | 0     | 28               |
|        | 8/M*2    | 15.3              | 5.1   | 10.2  | 0     | 0     | 112.2 | 0     | 0     |                  |
| second | 0-5      | 1                 | 1     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 1                 | 1     | 0     | 0     | 0     | 0     | 0     | 0     | 2                |
|        | 8/M*2    | 5.1               | 5.1   | 0     | 0     | 0     | 0     | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                |
|        | 8/M*2    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
| fourth | 0-5      | 10                | 11    | 46    | 66    | 20    | 22    | 21    | 0     |                  |
|        | 5-10     | -                 | 1     | 1     | 0     | 6     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 10                | 12    | 47    | 66    | 26    | 22    | 21    | 0     | 204              |
|        | 8/M*2    | 51                | 61.2  | 239.7 | 336.6 | 132.6 | 112.2 | 107.1 | 0     |                  |
|        |          |                   |       |       |       |       |       |       |       |                  |
| TOTAL  |          | 14                | 14    | 49    | 66    | 26    | 44    | 21    | 0     | 234              |
| 8/M*2  |          | 71.4              | 71.4  | 249.9 | 336.6 | 132.6 | 224.4 | 107.1 | 0     |                  |

TABLE 5

Chub Lake Chaoborus

SPECIES: Chaoborus punctipennis

DATE: 24/6/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
| second | 0-5      | 2                 | 0     | 0     | 0     | 25    | 18    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 5     | 5     | -     | 2     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 2                 | 0     | 0     | 5     | 30    | 18    | 2     | 0     | 57               |
|        | #/M^2    | 10.2              | 0     | 0     | 25.5  | 153   | 91.8  | 10.2  | 0     |                  |
| third  | 0-5      | 0                 | 0     | 3     | 0     | 0     | 2     | 2     | 4     |                  |
|        | 5-10     | -                 | 1     | 3     | 0     | 3     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 1     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 1     | 7     | 0     | 3     | 2     | 2     | 4     | 20               |
|        | #/M^2    | 0                 | 5.1   | 35.7  | 0     | 15.3  | 10.2  | 10.2  | 20.4  |                  |
| fourth | 0-5      | 38                | 17    | 33    | 97    | 40    | 85    | 17    | 37    |                  |
|        | 5-10     | -                 | 3     | 4     | 3     | 5     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 2     | 1     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 38                | 20    | 39    | 101   | 45    | 85    | 17    | 37    | 382              |
|        | #/M^2    | 193.8             | 102   | 198.9 | 515.5 | 229.5 | 433.5 | 86.7  | 198.9 |                  |
| <hr/>  |          |                   |       |       |       |       |       |       |       |                  |
| TOTAL  |          | 40                | 21    | 46    | 106   | 78    | 107   | 19    | 41    | 461              |
| #/M^2  |          | 204               | 107.1 | 234.6 | 540.6 | 397.8 | 545.7 | 96.9  | 209.1 |                  |

TABLE 6

Chub Lake Chaoborus  
 SPECIES: Chaoborus punctipennis  
 DATE: 29/6/82

| INSTAR | DEPTH(N) | STATION (DEPTH N) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 1     | 1     | 0     | 2                |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 1     | 1     | 0     |                  |
|        | 0/N*2    | 0                 | 0     | 0     | 0     | 0     | 5.1   | 5.1   | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 23    | 0     | 0     | 0     | 28               |
|        | 5-10     | -                 | 0     | 0     | 0     | 5     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 28    | 0     | 0     | 0     |                  |
|        | 0/N*2    | 0                 | 0     | 0     | 0     | 142.8 | 0     | 0     | 0     |                  |
| third  | 0-5      | 5                 | 18    | 7     | 25    | 30    | 22    | 27    | 0     | 134              |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 5                 | 18    | 7     | 25    | 30    | 22    | 27    | 0     |                  |
|        | 0/N*2    | 25.5              | 91.8  | 35.7  | 127.5 | 153   | 112.2 | 137.7 | 0     |                  |
| fourth | 0-5      | 33                | 13    | 0     | 17    | 12    | 26    | 28    | 0     | 157              |
|        | 5-10     | -                 | 24    | 0     | 3     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 1     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 33                | 37    | 0     | 21    | 12    | 26    | 28    | 0     |                  |
|        | 0/N*2    | 168.3             | 188.7 | 0     | 112.2 | 61.2  | 132.6 | 142.8 | 0     |                  |
| TOTAL  |          | 38                | 55    | 7     | 46    | 70    | 49    | 56    | 0     | 321              |
| 0/N*2  |          | 193.8             | 280.5 | 35.7  | 234.6 | 357   | 249.9 | 285.6 | 0     |                  |



TABLE 7

Chub Lake ChaoborusSPECIES: Chaoborus punctipennis

DATE: 6/7/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |        |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|--------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 2     | 0      | 1     | 0     | 3                |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 2     | 0      | 1     | 0     |                  |
|        | #/M*2    | 0                 | 0     | 0     | 0     | 10.2  | 0      | 5.1   | 0     |                  |
| second | 0-5      | 258               | 1     | 0     | 0     | 3     | 330    | 11    | 18    | 642              |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 1     | -     | -      | -     | -     |                  |
|        | Total    | 258               | 1     | 0     | 1     | 3     | 330    | 11    | 18    |                  |
|        | #/M*2    | 1315.8            | 5.1   | 0     | 5.1   | 15.3  | 1785   | 56.1  | 91.8  |                  |
| third  | 0-5      | 173               | 23    | 24    | 97    | 8     | 12     | 38    | 22    | 437              |
|        | 5-10     | -                 | 14    | 4     | 20    | 2     | -      | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|        | Total    | 173               | 37    | 28    | 117   | 10    | 12     | 38    | 22    |                  |
|        | #/M*2    | 882.3             | 188.7 | 142.8 | 596.7 | 51    | 51.2   | 193.8 | 112.2 |                  |
| fourth | 0-5      | 89                | 12    | 5     | 36    | 12    | 97     | 34    | 26    | 360              |
|        | 5-10     | -                 | 6     | 20    | 14    | 8     | -      | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 1     | -     | -      | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|        | Total    | 89                | 18    | 25    | 51    | 20    | 97     | 34    | 26    |                  |
|        | #/M*2    | 453.9             | 91.8  | 127.5 | 260.1 | 102   | 494.7  | 173.4 | 132.6 |                  |
| TOTAL  |          | 520               | 56    | 53    | 169   | 35    | 459    | 84    | 66    | 1442             |
| #/M*2  |          | 2652              | 285.6 | 270.3 | 861.9 | 178.5 | 2340.9 | 428.4 | 336.6 |                  |

TABLE 8

Chub Lake Chaoborus

SPECIES: Chaoborus punctipennis

DATE: 13/7/82

| INSTAR        | DEPTH(M)      | STATION (DEPTH M) |       |       |       |       |        |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|--------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 2     | 0     | 1     | 4     | 0      | 2     | 2     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 0                 | 2     | 0     | 1     | 4     | 0      | 2     | 2     | 11               |
|               | $\bar{N}/N^2$ | 0                 | 10.2  | 0     | 5.1   | 20.4  | 0      | 10.2  | 10.2  |                  |
| second        | 0-5           | 0                 | 0     | 0     | 2     | 12    | 228    | 9     | 14    |                  |
|               | 5-10          | -                 | 0     | 0     | 20    | 0     | -      | 1     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 0                 | 0     | 0     | 22    | 12    | 228    | 10    | 14    | 284              |
|               | $\bar{N}/N^2$ | 0                 | 0     | 0     | 112.2 | 61.2  | 1162.8 | 51    | 71.4  |                  |
| third         | 0-5           | 3                 | 3     | 4     | 29    | 48    | 111    | 20    | 16    |                  |
|               | 5-10          | -                 | 3     | 3     | 32    | 8     | -      | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 5     | 0     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 3                 | 6     | 12    | 61    | 56    | 111    | 20    | 16    | 285              |
|               | $\bar{N}/N^2$ | 15.3              | 30.6  | 61.2  | 311.1 | 285.6 | 566.1  | 102   | 81.6  |                  |
| fourth        | 0-5           | 4                 | 2     | 4     | 25    | 73    | 83     | 22    | 44    |                  |
|               | 5-10          | -                 | 9     | 13    | 48    | 11    | -      | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 3     | 0     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 4                 | 11    | 20    | 73    | 84    | 83     | 22    | 44    | 341              |
|               | $\bar{N}/N^2$ | 20.4              | 56.1  | 102   | 372.3 | 428.4 | 423.3  | 112.2 | 224.4 |                  |
| <hr/>         |               |                   |       |       |       |       |        |       |       |                  |
| TOTAL         |               | 7                 | 19    | 32    | 157   | 156   | 422    | 54    | 76    | 923              |
| $\bar{N}/N^2$ |               | 35.7              | 96.9  | 163.2 | 800.7 | 795.6 | 2152.2 | 275.4 | 387.6 |                  |

TABLE 9

Chub Lake *Chaoborus*:SPECIES: *Chaoborus punctipennis*

DATE: 20/7/82

| INSTAR        | DEPTH(M)      | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 0     | 2     | 2     | 1     | 0     | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 0                 | 0     | 2     | 2     | 1     | 0     | 0     | 0     | 5                |
|               | $\bar{N}/M^2$ | 0                 | 0     | 10.2  | 10.2  | 5.1   | 0     | 0     | 0     |                  |
| second        | 0-5           | 43                | 2     | 2     | 12    | 0     | 83    | 0     | 2     |                  |
|               | 5-10          | -                 | 0     | 9     | 4     | 2     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 1     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 43                | 2     | 11    | 12    | 2     | 83    | 0     | 2     | 140              |
|               | $\bar{N}/M^2$ | 219.3             | 10.2  | 56.1  | 86.7  | 10.2  | 423.3 | 0     | 10.2  |                  |
| third         | 0-5           | 171               | 6     | 9     | 16    | 40    | 112   | 2     | 30    |                  |
|               | 5-10          | -                 | 11    | 13    | 9     | 5     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 1     | 1     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 171               | 17    | 23    | 27    | 45    | 112   | 2     | 30    | 427              |
|               | $\bar{N}/M^2$ | 872.1             | 86.7  | 117.3 | 137.7 | 229.5 | 571.2 | 10.2  | 153   |                  |
| fourth        | 0-5           | 214               | 5     | 20    | 77    | 32    | 85    | 14    | 28    |                  |
|               | 5-10          | -                 | 13    | 18    | 3     | 18    | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 3     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 2     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 214               | 18    | 38    | 105   | 50    | 85    | 14    | 28    | 552              |
|               | $\bar{N}/M^2$ | 1091.4            | 91.8  | 193.8 | 535.5 | 255   | 433.5 | 71.4  | 142.8 |                  |
| <hr/>         |               |                   |       |       |       |       |       |       |       |                  |
| TOTAL         |               | 428               | 37    | 74    | 151   | 98    | 280   | 16    | 60    | 1144             |
| $\bar{N}/M^2$ |               | 2182.8            | 188.7 | 377.4 | 668.1 | 499.8 | 1428  | 81.6  | 306   |                  |

TABLE 10

Chub Lake Chaoborus

SPECIES: *Chaoborus punctipennis*

DATE: 27/7/82

| INSTAR           | DEPTH (M)        | STATION (DEPTH M) |       |       |       |       |        |        |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|--------|--------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10)  | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 8     | 0      | 0      | 0     | 8                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 8     | 0      | 0      | 0     |                  |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 0     | 40.8  | 0      | 0      | 0     |                  |
| second           | 0-5              | 28                | 1     | 0     | 2     | 16    | 98     | 38     | 12    | 197              |
|                  | 5-10             | -                 | 0     | 0     | 0     | 2     | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | Total            | 28                | 1     | 0     | 2     | 18    | 98     | 38     | 12    |                  |
|                  | g/m <sup>2</sup> | 142.8             | 5.1   | 0     | 10.2  | 91.8  | 499.8  | 193.8  | 61.2  |                  |
| third            | 0-5              | 36                | 10    | 24    | 7     | 45    | 138    | 126    | 20    | 427              |
|                  | 5-10             | -                 | 2     | 6     | 0     | 13    | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | Total            | 36                | 12    | 30    | 7     | 58    | 138    | 126    | 20    |                  |
|                  | g/m <sup>2</sup> | 183.6             | 61.2  | 306   | 35.7  | 295.8 | 703.8  | 642.6  | 102   |                  |
| fourth           | 0-5              | 77                | 12    | 28    | 32    | 32    | 20     | 67     | 48    | 354              |
|                  | 5-10             | -                 | 5     | 9     | 9     | 8     | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 3     | 4     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | Total            | 77                | 17    | 41    | 45    | 40    | 20     | 67     | 48    |                  |
|                  | g/m <sup>2</sup> | 392.7             | 86.7  | 209.1 | 229.5 | 204   | 102    | 341.7  | 244.8 |                  |
| TOTAL            |                  | 141               | 30    | 70    | 54    | 124   | 256    | 231    | 80    | 986              |
| g/m <sup>2</sup> |                  | 719.1             | 153   | 357   | 275.4 | 632.4 | 1305.6 | 1178.1 | 408   |                  |

TABLE 11

Chub Lake Chaoborus

SPECIES: Chaoborus punctipennis

DATE: 3/8/82

| INSTAR        | DEPTH(N)      | STATION (DEPTH N) |       |       |       |       |        |        |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|--------|--------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10)  | H(10) |                  |
| first         | 0-5           | 0                 | 0     | 4     | 2     | 0     | 0      | 0      | 0     | 6                |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -      | 0      | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|               | Total         | 0                 | 0     | 4     | 2     | 0     | 0      | 0      | 0     |                  |
|               | $\bar{N}/N^2$ | 0                 | 0     | 20.4  | 10.2  | 0     | 0      | 0      | 0     |                  |
| second        | 0-5           | 4                 | 4     | 9     | 3     | 4     | 38     | 16     | 4     | 88               |
|               | 5-10          | -                 | 0     | 1     | 1     | 4     | -      | 0      | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|               | Total         | 4                 | 4     | 10    | 4     | 8     | 38     | 16     | 4     |                  |
|               | $\bar{N}/N^2$ | 20.4              | 20.4  | 51    | 20.4  | 40.8  | 193.8  | 81.6   | 20.4  |                  |
| third         | 0-5           | 21                | 42    | 48    | 34    | 33    | 294    | 144    | 50    | 683              |
|               | 5-10          | -                 | 3     | 2     | 3     | 7     | -      | 0      | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 1     | -     | -      | -      | -     |                  |
|               | 15-20         | -                 | -     | -     | 1     | -     | -      | -      | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|               | Total         | 21                | 45    | 50    | 39    | 40    | 294    | 144    | 50    |                  |
|               | $\bar{N}/N^2$ | 107.1             | 229.5 | 235   | 198.9 | 204   | 1499.4 | 734.4  | 235   |                  |
| fourth        | 0-5           | 13                | 17    | 18    | 4     | 10    | 52     | 37     | 16    | 188              |
|               | 5-10          | -                 | 6     | 10    | 0     | 5     | -      | 0      | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|               | Total         | 13                | 23    | 28    | 4     | 15    | 52     | 37     | 16    |                  |
|               | $\bar{N}/N^2$ | 66.3              | 117.3 | 142.8 | 20.4  | 76.5  | 265.2  | 188.7  | 81.6  |                  |
| TOTAL         |               | 38                | 72    | 92    | 49    | 63    | 384    | 197    | 70    | 965              |
| $\bar{N}/N^2$ |               | 193.8             | 367.2 | 469.2 | 249.9 | 321.3 | 1958.4 | 1004.7 | 357   |                  |

TABLE 12

Chub Lake Chaoborus  
SPECIES: Chaoborus punctipennis  
DATE: 10/8/82

| INSTAR        | DEPTH(N)      | STATION (DEPTH N) |       |        |        |       |       |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|--------|--------|-------|-------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15)  | D(23)  | E(10) | F(5)  | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 0     | 0      | 0      | 0     | 0     | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0      | 0      | 0     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0      | 0      | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -      | 3      | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -      | 0      | -     | -     | -     | -     |                  |
|               | Total         | 0                 | 0     | 0      | 3      | 0     | 0     | 0     | 0     | 3                |
|               | $\bar{N}/N^2$ | 0                 | 0     | 0      | 15.3   | 0     | 0     | 0     | 0     |                  |
| second        | 0-5           | 0                 | 0     | 24     | 1      | 4     | 1     | 4     | 4     |                  |
|               | 5-10          | -                 | 0     | 0      | 1      | 16    | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0      | 0      | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -      | 0      | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -      | 1      | -     | -     | -     | -     |                  |
|               | Total         | 0                 | 0     | 24     | 3      | 20    | 1     | 4     | 4     | 56               |
|               | $\bar{N}/N^2$ | 0                 | 0     | 122.4  | 15.3   | 102   | 5.1   | 20.4  | 20.4  |                  |
| third         | 0-5           | 8                 | 22    | 173    | 152    | 116   | 78    | 86    | 94    |                  |
|               | 5-10          | -                 | 3     | 72     | 1      | 36    | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 22     | 7      | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -      | 2      | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -      | 2      | -     | -     | -     | -     |                  |
|               | Total         | 8                 | 25    | 267    | 164    | 152   | 78    | 86    | 94    | 874              |
|               | $\bar{N}/N^2$ | 40.8              | 127.5 | 1361.7 | 836.4  | 775.2 | 397.8 | 438.6 | 479.4 |                  |
| fourth        | 0-5           | 7                 | 6     | 81     | 67     | 14    | 41    | 24    | 0     |                  |
|               | 5-10          | -                 | 1     | 24     | 1      | 3     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 6      | 3      | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -      | 1      | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -      | 0      | -     | -     | -     | -     |                  |
|               | Total         | 7                 | 7     | 111    | 72     | 17    | 41    | 24    | 0     | 279              |
|               | $\bar{N}/N^2$ | 35.7              | 35.7  | 566.1  | 367.2  | 86.7  | 209.1 | 122.4 | 0     |                  |
| TOTAL         |               | 15                | 32    | 402    | 242    | 189   | 120   | 114   | 98    | 1212             |
| $\bar{N}/N^2$ |               | 76.5              | 163.2 | 2050.2 | 1234.2 | 963.9 | 612   | 581.4 | 499.8 |                  |

TABLE 13

Chub Lake ChaoborusSPECIES: Chaoborus punctipennis

DATE: 17/8/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |        |        |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|--------|--------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10)  | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0      | 0      | 0     | 0                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0      | 0      | 0     |                  |
|                  | 8/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0      | 0      | 0     |                  |
| second           | 0-5              | 6                 | 8     | 0     | 0     | 4     | 18     | 0      | 0     | 37               |
|                  | 5-10             | -                 | 0     | 0     | 0     | 1     | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | Total            | 6                 | 8     | 0     | 0     | 5     | 18     | 0      | 0     |                  |
|                  | 8/M <sup>2</sup> | 30.6              | 40.8  | 0     | 0     | 25.5  | 91.8   | 0      | 0     |                  |
| third            | 0-5              | 154               | 36    | 3     | 46    | 40    | 254    | 132    | 64    | 769              |
|                  | 5-10             | -                 | 6     | 11    | 12    | 10    | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 1     | -     | -      | -      | -     |                  |
|                  | Total            | 154               | 42    | 14    | 59    | 50    | 254    | 132    | 64    |                  |
|                  | 8/M <sup>2</sup> | 783.4             | 214.2 | 71.4  | 300.9 | 255   | 1295.4 | 673.2  | 326.4 |                  |
| fourth           | 0-5              | 124               | 12    | 8     | 38    | 42    | 100    | 94     | 56    | 503              |
|                  | 5-10             | -                 | 5     | 2     | 8     | 10    | -      | 0      | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 2     | -     | -      | -      | -     |                  |
|                  | 15-20            | -                 | -     | -     | 1     | -     | -      | -      | -     |                  |
|                  | 20-27            | -                 | -     | -     | 1     | -     | -      | -      | -     |                  |
|                  | Total            | 124               | 17    | 10    | 50    | 52    | 100    | 94     | 56    |                  |
|                  | 8/M <sup>2</sup> | 632.4             | 86.7  | 51    | 255   | 265.2 | 510    | 479.4  | 285.6 |                  |
| TOTAL            |                  | 284               | 67    | 24    | 109   | 107   | 372    | 226    | 120   | 1309             |
| 8/M <sup>2</sup> |                  | 1448.4            | 341.7 | 122.4 | 555.9 | 545.7 | 1897.2 | 1152.6 | 612   |                  |

TABLE 14

Chub Lake ChaoborusSPECIES: Chaoborus punctipennis

DATE: 17/8/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |        |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|--------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0                |
|                  | 0/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     |                  |
| second           | 0-5              | 0                 | 2     | 1     | 0     | 4     | 24     | 0     | 0     |                  |
|                  | 5-10             | -                 | 1     | 0     | 1     | 0     | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 2     | -     | -      | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 0                 | 3     | 1     | 3     | 4     | 24     | 0     | 0     | 35               |
|                  | 0/M <sup>2</sup> | 0                 | 15.3  | 5.1   | 15.3  | 20.4  | 122.4  | 0     | 0     |                  |
| third            | 0-5              | 56                | 18    | 43    | 0     | 56    | 140    | 56    | 32    |                  |
|                  | 5-10             | -                 | 2     | 8     | 4     | 0     | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 4     | -     | -      | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 56                | 20    | 51    | 8     | 56    | 140    | 56    | 32    | 419              |
|                  | 0/M <sup>2</sup> | 285.6             | 102   | 260.1 | 40.8  | 285.6 | 714    | 285.6 | 163.2 |                  |
| fourth           | 0-5              | 75                | 24    | 47    | 0     | 48    | 93     | 52    | 28    |                  |
|                  | 5-10             | -                 | 3     | 11    | 2     | 5     | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 2     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 75                | 27    | 58    | 4     | 53    | 93     | 52    | 28    | 390              |
|                  | 0/M <sup>2</sup> | 382.5             | 137.7 | 295.8 | 20.4  | 270.3 | 474.3  | 265.2 | 142.8 |                  |
| <hr/>            |                  |                   |       |       |       |       |        |       |       |                  |
| TOTAL            |                  | 131               | 50    | 110   | 15    | 113   | 257    | 108   | 60    | 844              |
| 0/M <sup>2</sup> |                  | 668.1             | 255   | 561   | 76.5  | 576.3 | 1310.7 | 550.8 | 306   |                  |



TABLE 15

Chub Lake Chaoborus

SPECIES: *Chaoborus punctipennis*

DATE: 31/8/82

| INSTAR        | DEPTH(N)      | STATION (DEPTH N) |       |       |       |       |        |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|--------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0                |
|               | $\bar{N}/N^2$ | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     |                  |
| second        | 0-5           | 0                 | 0     | 3     | 8     | 0     | 48     | 4     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 0                 | 0     | 3     | 8     | 0     | 48     | 4     | 0     | 63               |
|               | $\bar{N}/N^2$ | 0                 | 0     | 15.3  | 40.8  | 0     | 244.8  | 20.4  | 0     |                  |
| third         | 0-5           | 26                | 41    | 40    | 28    | 9     | 81     | 52    | 24    |                  |
|               | 5-10          | -                 | 2     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 26                | 43    | 40    | 28    | 9     | 81     | 52    | 24    | 303              |
|               | $\bar{N}/N^2$ | 132.6             | 219.3 | 205   | 142.8 | 45.9  | 413.1  | 265.2 | 122.4 |                  |
| fourth        | 0-5           | 33                | 81    | 102   | 81    | 46    | 456    | 126   | 61    |                  |
|               | 5-10          | -                 | 3     | 0     | 15    | 16    | -      | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 3     | 9     | -     | -      | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 1     | -     | -      | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|               | Total         | 33                | 84    | 105   | 106   | 62    | 456    | 126   | 61    | 1033             |
|               | $\bar{N}/N^2$ | 168.3             | 428.4 | 535.5 | 540.6 | 316.2 | 2325.6 | 642.6 | 311.1 |                  |
| <hr/>         |               |                   |       |       |       |       |        |       |       |                  |
| TOTAL         |               | 59                | 127   | 148   | 142   | 71    | 585    | 152   | 85    | 1399             |
| $\bar{N}/N^2$ |               | 300.9             | 647.7 | 754.8 | 724.2 | 362.1 | 2983.5 | 775.2 | 433.5 |                  |

TABLE 16

Chub Lake ChaoborusSPECIES: Chaoborus punctipennis

DATE: 14/9/82

| INSTAR           | DEPTH(N)         | STATION (DEPTH N) |       |       |       |       |        |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|--------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)   | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     | 0                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     |                  |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0      | 0     | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 4     | 4     | 0      | 0     | 0     | 8                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 4     | 4     | 0      | 0     | 0     |                  |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 20.4  | 20.4  | 0      | 0     | 0     |                  |
| third            | 0-5              | 0                 | 5     | 0     | 0     | 20    | 72     | 2     | 16    | 115              |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -      | -     | 0     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 0                 | 5     | 0     | 0     | 20    | 72     | 2     | 16    |                  |
|                  | g/m <sup>2</sup> | 0                 | 25.5  | 0     | 0     | 102   | 367.2  | 10.2  | 81.6  |                  |
| fourth           | 0-5              | 20                | 17    | 15    | 65    | 44    | 277    | 39    | 46    | 567              |
|                  | 5-10             | -                 | 4     | 5     | 12    | 13    | -      | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 1     | 5     | -     | -      | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 2     | -     | -      | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -      | -     | -     |                  |
|                  | Total            | 20                | 21    | 21    | 84    | 57    | 277    | 39    | 46    |                  |
|                  | g/m <sup>2</sup> | 102               | 107.1 | 107.1 | 438.6 | 290.7 | 1412.7 | 198.9 | 234.6 |                  |
| TOTAL            |                  | 20                | 26    | 21    | 88    | 81    | 349    | 41    | 62    | 690              |
| g/m <sup>2</sup> |                  | 102               | 132.6 | 107.1 | 448.8 | 413.1 | 1779.9 | 209.1 | 316.2 |                  |

TABLE 17

Chub Lake ChaoborusSPECIES: Chaoborus punctipennis

DATE: 30/9/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third            | 0-5              | 0                 | 1     | 3     | 2     | 4     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | 0     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 1     | 3     | 2     | 4     | 0    | 0     | 0     | 10               |
|                  | #/M <sup>2</sup> | 0                 | 5.1   | 15.3  | 10.2  | 20.4  | 0    | 0     | 0     |                  |
| fourth           | 0-5              | 22                | 20    | 26    | 16    | 10    | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 9     | 14    | 13    | 18    | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 1     | 1     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 3     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 22                | 29    | 41    | 33    | 28    | 0    | 0     | 0     | 153              |
|                  | #/M <sup>2</sup> | 112.2             | 147.9 | 209.1 | 168.3 | 142.8 | 0    | 0     | 0     |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 22                | 30    | 44    | 35    | 32    | 0    | 0     | 0     | 163              |
| #/M <sup>2</sup> |                  | 112.2             | 153   | 224.4 | 178.5 | 163.2 | 0    | 0     | 0     |                  |

TABLE 18

Chub Lake Chaoborus:  
 SPECIES: Chaoborus punctipennis  
 DATE: 14/10/82

| INSTAR | DEPTH(N) | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 1     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 1     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 2     | 0     | 0    | 0     | 0     | 2                |
|        | 8/N*2    | 0                 | 0     | 0     | 10.2  | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 1     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 1     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 1     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 1     | 1     | 1     | 0     | 0    | 0     | 0     | 3                |
|        | 8/N*2    | 0                 | 5.1   | 5.1   | 5.1   | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 4     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | 0     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 4     | 0     | 0    | 0     | 0     | 4                |
|        | 8/N*2    | 0                 | 0     | 0     | 20.4  | 0     | 0    | 0     | 0     |                  |
| fourth | 0-5      | 11                | 3     | 4     | 2     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 4     | 6     | 8     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 1     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 2     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 11                | 3     | 9     | 10    | 8     | 0    | 0     | 0     | 41               |
|        | 8/N*2    | 56.1              | 15.3  | 45.9  | 51    | 40.8  | 0    | 0     | 0     |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 11                | 4     | 10    | 17    | 8     | 0    | 0     | 0     | 50               |
| 8/N*2  |          | 56.1              | 20.4  | 51    | 86.7  | 40.8  | 0    | 0     | 0     |                  |

TABLE 19

Chub Lake ChaoborusSPECIES: Chaoborus flavicans

DATE: 3/6/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 1                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | 0     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 1                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 1                |
|        | #/M^2    | 5.1               | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| fourth | 0-5      | 0                 | 0     | 17    | 4     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 1     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 1     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 17    | 6     | 0     | 0    | 0     | 0     | 23               |
|        | #/M^2    | 0                 | 0     | 86.7  | 30.6  | 0     | 0    | 0     | 0     |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 1                 | 0     | 17    | 6     | 0     | 0    | 0     | 0     | 24               |
| #/M^2  |          | 0                 | 0     | 86.7  | 30.6  | 0     | 0    | 0     | 0     |                  |

TABLE 20

Chub Lake Chaoborus  
 SPECIES: Chaoborus flavicans  
 DATE: 8/6/82

| INSTAR        | DEPTH(M)      | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 1     | 1     | 0     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 1     | 1     | 0     | 0     | 0    | 0     | 0     | 2                |
|               | $\bar{N}/M^2$ | 0                 | 5.1   | 5.1   | 0     | 0     | 0    | 0     | 0     |                  |
| second        | 0-5           | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|               | $\bar{N}/M^2$ | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third         | 0-5           | 2                 | 2     | 2     | 1     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | 0     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 2                 | 2     | 2     | 1     | 0     | 0    | 0     | 0     | 7                |
|               | $\bar{N}/M^2$ | 10.2              | 10.2  | 10.2  | 5.1   | 0     | 0    | 0     | 0     |                  |
| fourth        | 0-5           | 0                 | 1     | 2     | 6     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 1     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 2     | 2     | 6     | 0     | 0    | 0     | 0     | 10               |
|               | $\bar{N}/M^2$ | 0                 | 10.2  | 10.2  | 30.6  | 0     | 0    | 0     | 0     |                  |
| <hr/>         |               |                   |       |       |       |       |      |       |       |                  |
| TOTAL         |               | 2                 | 5     | 5     | 7     | 0     | 0    | 0     | 0     | 19               |
| $\bar{N}/M^2$ |               | 10.2              | 25.5  | 25.5  | 35.7  | 0     | 0    | 0     | 0     |                  |

TABLE 21

Chub Lake Chaoborus:SPECIES: Chaoborus flavicans

DATE: 15/6/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 2                 | 0     | 2     | 0     | 0     | 4    | 6     | 0     |                  |
|                  | 5-10             | -                 | 1     | 1     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 2                 | 1     | 3     | 0     | 0     | 4    | 6     | 0     | 16               |
|                  | g/m <sup>2</sup> | 10.1              | 5.1   | 15.3  | 0     | 0     | 20.4 | 30.6  | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third            | 0-5              | 0                 | 0     | 2     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | 0     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 2     | 0     | 0     | 0    | 0     | 0     | 2                |
|                  | g/m <sup>2</sup> | 0                 | 0     | 10.2  | 0     | 0     | 0    | 0     | 0     |                  |
| fourth           | 0-5              | 0                 | 3     | 2     | 2     | 8     | 1    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 3     | 2     | 2     | 8     | 1    | 0     | 0     | 16               |
|                  | g/m <sup>2</sup> | 0                 | 15.3  | 10.2  | 10.2  | 40.8  | 5.1  | 0     | 0     |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 2                 | 4     | 7     | 2     | 8     | 5    | 6     | 0     | 34               |
| g/m <sup>2</sup> |                  | 10.2              | 20.4  | 35.7  | 10.2  | 40.8  | 25.5 | 30.6  | 0     |                  |

Chub Lake Chaborus  
SPECIES: Chaborus flavicans  
DATE: 24/6/82

TABLE 22

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 3     | 12    | 1     | 18    | 20    | 2     | 2     | 63               |
|                  | 5-10             | -                 | 0     | 1     | 0     | 0     | -     | 3     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 3     | 13    | 2     | 18    | 23    | 5     | 2     |                  |
|                  | g/m <sup>2</sup> | 0                 | 15.3  | 66.3  | 10.2  | 91.8  | 117.3 | 25.5  | 10.2  |                  |
| second           | 0-5              | 0                 | 0     | 0     | 3     | 0     | 0     | 4     | 1     | 8                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 3     | 0     | 0     | 4     | 1     |                  |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 15.3  | 0     | 0     | 20.4  | 5.1   |                  |
| third            | 0-5              | 1                 | 0     | 0     | 0     | 0     | 0     | 2     | 2     | 5                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 1                 | 0     | 0     | 0     | 0     | 0     | 2     | 2     |                  |
|                  | g/m <sup>2</sup> | 5.1               | 0     | 0     | 0     | 0     | 0     | 10.2  | 10.2  |                  |
| fourth           | 0-5              | 0                 | 0     | 2     | 1     | 1     | 0     | 2     | 5     | 13               |
|                  | 5-10             | -                 | 0     | 0     | 1     | 1     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 0     | 2     | 2     | 2     | 0     | 2     | 5     |                  |
|                  | g/m <sup>2</sup> | 0                 | 0     | 10.2  | 10.2  | 10.2  | 0     | 10.2  | 25.5  |                  |
| TOTAL            |                  | 1                 | 3     | 15    | 7     | 20    | 20    | 13    | 10    | 89               |
| g/m <sup>2</sup> |                  | 5.1               | 15.3  | 76.5  | 35.7  | 102   | 102   | 66.3  | 51    |                  |



TABLE 23

Chub Lake ChaoborusSPECIES: Chaoborus flavicans

DATE: 29/6/82

| INSTAR           | DEPTH(N)         | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 2     | 0     | 6     | 11    | 15   | 12    | 0     |                  |
|                  | 5-10             | -                 | 0     | 1     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 2     | 1     | 6     | 11    | 15   | 12    | 0     | 47               |
|                  | #/M <sup>2</sup> | 0                 | 10.2  | 5.1   | 30.6  | 56.1  | 76.5 | 61.2  | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 6     | 12    | 0    | 8     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 2     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 1     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 1     | 6     | 14    | 0    | 8     | 0     | 29               |
|                  | #/M <sup>2</sup> | 0                 | 0     | 5.1   | 30.6  | 71.4  | 0    | 40.8  | 0     |                  |
| third            | 0-5              | 0                 | 2     | 1     | 0     | 0     | 0    | 2     | 0     |                  |
|                  | 5-10             | -                 | 3     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 5     | 1     | 0     | 0     | 0    | 2     | 0     | 8                |
|                  | #/M <sup>2</sup> | 0                 | 25.5  | 5.1   | 0     | 0     | 0    | 10.2  | 0     |                  |
| fourth           | 0-5              | 2                 | 1     | 0     | 3     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 1     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 2                 | 1     | 1     | 3     | 0     | 0    | 0     | 0     | 7                |
|                  | #/M <sup>2</sup> | 10.2              | 5.1   | 5.1   | 15.3  | 0     | 0    | 0     | 0     |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 2                 | 8     | 4     | 15    | 25    | 15   | 22    | 0     | 91               |
| #/M <sup>2</sup> |                  | 10.2              | 40.8  | 20.4  | 76.5  | 127.5 | 76.5 | 112.2 | 0     |                  |

TABLE 24

Chub Lake ChaoborusSPECIES: Chaoborus flavicans

DATE: 6/7/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first  | 0-5      | 8                 | 8     | 0     | 0     | 0     | 104   | 6     | 2     | 131              |
|        | 5-10     | -                 | 3     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 8                 | 11    | 0     | 0     | 0     | 104   | 6     | 2     |                  |
|        | 8/M*2    | 40.8              | 56.1  | 0     | 0     | 0     | 530.4 | 30.6  | 10.2  |                  |
| second | 0-5      | 24                | 16    | 2     | 16    | 1     | 8     | 0     | 1     | 94               |
|        | 5-10     | -                 | 6     | 4     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 6     | -     | -     | -     | -     |                  |
|        | Total    | 24                | 22    | 6     | 22    | 1     | 8     | 0     | 1     |                  |
|        | 8/M*2    | 122.4             | 112.2 | 30.6  | 112.2 | 5.1   | 40.8  | 0     | 5.1   |                  |
| third  | 0-5      | 0                 | 0     | 0     | 8     | 0     | 0     | 0     | 2     | 14               |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 3     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 12    | 0     | 0     | 0     | 2     |                  |
|        | 8/M*2    | 0                 | 0     | 0     | 61.2  | 0     | 0     | 0     | 10.2  |                  |
| fourth | 0-5      | 0                 | 0     | 0     | 0     | 2     | 1     | 8     | 5     | 16               |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 2     | 1     | 8     | 5     |                  |
|        | 8/M*2    | 0                 | 0     | 0     | 0     | 10.2  | 5.1   | 40.8  | 25.5  |                  |
| TOTAL  |          | 32                | 33    | 6     | 34    | 3     | 113   | 14    | 10    | 245              |
| 8/M*2  |          | 163.2             | 168.3 | 30.6  | 173.4 | 15.3  | 576.3 | 71.4  | 51    |                  |

TABLE 25

Chub Lake Chaoborus  
 SPECIES: Chaoborus flavicans  
 DATE: 13/7/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 8     | 108   | 10    | 14    |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 8     | 108   | 10    | 14    | 140              |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 40.8  | 550.8 | 51    | 71.4  |                  |
| second | 0-5      | 0                 | 2     | 0     | 2     | 24    | 24    | 6     | 6     |                  |
|        | 5-10     | -                 | 0     | 0     | 8     | 4     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 2     | 0     | 10    | 28    | 24    | 6     | 6     | 76               |
|        | #/M^2    | 90                | 10.2  | 0     | 51    | 142.8 | 245.1 | 30.6  | 30.6  |                  |
| third  | 0-5      | 0                 | 1     | 0     | 1     | 8     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 4     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 1     | 0     | 5     | 8     | 0     | 0     | 0     | 14               |
|        | #/M^2    | 0                 | 5.1   | 0     | 25.5  | 40.8  | 0     | 0     | 0     |                  |
| fourth | 0-5      | 0                 | 0     | 0     | 0     | 1     | 1     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 1     | 1     | 0     | 0     | 2                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 5.1   | 5.1   | 0     | 0     |                  |
| TOTAL  |          | 0                 | 3     | 0     | 15    | 45    | 133   | 16    | 20    | 232              |
| #/M^2  |          | 0                 | 15.3  | 0     | 76.5  | 229.5 | 678.3 | 81.6  | 102   |                  |

TABLE 26

Chub Lake Chaoborus:

SPECIES: *Chaoborus flavicans*

DATE: 20/7/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first            | 0-5              | 24                | 1     | 0     | 6     | 8     | 82    | 0     | 6     | 135              |
|                  | 5-10             | -                 | 2     | 5     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|                  | Total            | 24                | 3     | 5     | 7     | 8     | 82    | 0     | 6     |                  |
|                  | #/M <sup>2</sup> | 122.4             | 15.3  | 25.5  | 35.7  | 40.8  | 418.8 | 0     | 30.6  |                  |
| second           | 0-5              | 56                | 1     | 0     | 0     | 16    | 40    | 0     | 5     | 137              |
|                  | 5-10             | -                 | 5     | 12    | 0     | 2     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|                  | Total            | 56                | 6     | 12    | 1     | 18    | 40    | 0     | 5     |                  |
|                  | #/M <sup>2</sup> | 283.6             | 30.6  | 61.2  | 5.1   | 91.8  | 204   | 0     | 25.5  |                  |
| third            | 0-5              | 60                | 0     | 4     | 0     | 8     | 36    | 0     | 0     | 119              |
|                  | 5-10             | -                 | 2     | 6     | 0     | 2     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|                  | Total            | 60                | 2     | 10    | 1     | 10    | 36    | 0     | 0     |                  |
|                  | #/M <sup>2</sup> | 30.6              | 10.2  | 51    | 5.1   | 51    | 183.6 | 0     | 0     |                  |
| fourth           | 0-5              | 0                 | 0     | 0     | 0     | 1     | 0     | 2     | 1     | 4                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 1     | 0     | 2     | 1     |                  |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 5.1   | 0     | 10.2  | 5.1   |                  |
| TOTAL            |                  | 140               | 11    | 27    | 9     | 37    | 158   | 2     | 12    | 396              |
| #/M <sup>2</sup> |                  | 714               | 56.1  | 137.7 | 45.9  | 188.7 | 805.8 | 10.2  | 61.2  |                  |

TABLE 27

Chub Lake Chaoborus:

SPECIES: Chaoborus flavicans

DATE: 27/7/82

| INSTAR        | DEPTH(N)      | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first         | 0-5           | 4                 | 3     | 0     | 8     | 0     | 12    | 32    | 36    | 97               |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -     | 2     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 4                 | 3     | 0     | 8     | 0     | 12    | 34    | 36    |                  |
|               | $\bar{N}/M^2$ | 20.4              | 15.3  | 0     | 40.8  | 0     | 61.2  | 163.2 | 183.6 |                  |
| second        | 0-5           | 26                | 3     | 4     | 14    | 16    | 93    | 23    | 12    | 193              |
|               | 5-10          | -                 | 0     | 2     | 0     | 0     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 26                | 3     | 6     | 14    | 16    | 93    | 23    | 12    |                  |
|               | $\bar{N}/M^2$ | 132.6             | 15.3  | 30.6  | 71.4  | 81.6  | 474.3 | 117.3 | 61.2  |                  |
| third         | 0-5           | 12                | 2     | 4     | 4     | 4     | 48    | 8     | 21    | 110              |
|               | 5-10          | -                 | 0     | 2     | 2     | 2     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 1     | 0     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 12                | 2     | 7     | 6     | 6     | 48    | 8     | 21    |                  |
|               | $\bar{N}/M^2$ | 61.2              | 10.2  | 35.7  | 30.6  | 30.6  | 244.8 | 40.8  | 107.1 |                  |
| fourth        | 0-5           | 12                | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 13               |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|               | Total         | 12                | 0     | 0     | 2     | 0     | 0     | 0     | 0     |                  |
|               | $\bar{N}/M^2$ | 61.2              | 0     | 0     | 10.2  | 0     | 0     | 0     | 0     |                  |
| TOTAL         |               | 54                | 8     | 13    | 29    | 22    | 153   | 65    | 69    | 413              |
| $\bar{N}/M^2$ |               | 275.4             | 40.8  | 66.3  | 147.9 | 112.2 | 780.3 | 331.5 | 351.9 |                  |

TABLE 28

Chub Lake Chaoborus

SPECIES: Chaoborus flavicans

DATE: 3/8/82

| INSTAR           | DEPTH (M)        | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first            | 0-5              | 1                 | 3     | 4     | 1     | 10    | 28    | 8     | 2     | 57               |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 1                 | 3     | 4     | 1     | 10    | 28    | 8     | 2     |                  |
|                  | g/m <sup>2</sup> | 5.1               | 15.3  | 20.4  | 5.1   | 51    | 142.8 | 40.8  | 10.2  |                  |
| second           | 0-5              | 3                 | 5     | 7     | 2     | 14    | 65    | 24    | 28    | 150              |
|                  | 5-10             | -                 | 2     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 3                 | 7     | 7     | 2     | 14    | 65    | 24    | 28    |                  |
|                  | g/m <sup>2</sup> | 15.3              | 35.7  | 35.7  | 10.2  | 71.4  | 331.5 | 122.4 | 142.8 |                  |
| third            | 0-5              | 2                 | 12    | 7     | 1     | 6     | 47    | 24    | 60    | 167              |
|                  | 5-10             | -                 | 3     | 3     | 0     | 2     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 2                 | 15    | 10    | 1     | 8     | 47    | 24    | 60    |                  |
|                  | g/m <sup>2</sup> | 10.2              | 76.5  | 51    | 5.1   | 40.8  | 239.7 | 122.4 | 306   |                  |
| fourth           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 4     | 0     | 5     | 9                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 4     | 0     | 5     |                  |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 20.4  | 0     | 25.5  |                  |
| TOTAL            |                  | 6                 | 25    | 21    | 4     | 32    | 144   | 56    | 95    | 383              |
| g/m <sup>2</sup> |                  | 30.6              | 127.5 | 107.1 | 20.4  | 163.2 | 734.4 | 285.6 | 484.5 |                  |

TABLE 29

Chub Lake ChaoborusSPECIES: Chaoborus flavicans

DATE: 10/8/82

| INSTAR        | DEPTH(M)      | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first         | 0-5           | 1                 | 0     | 16    | 8     | 10    | 0     | 0     | 8     | 45               |
|               | 5-10          | -                 | 0     | 0     | 1     | 0     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 1     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 1                 | 0     | 16    | 10    | 10    | 0     | 0     | 8     |                  |
|               | $\bar{N}/N^2$ | 5.1               | 0     | 81.6  | 51    | 51    | 0     | 0     | 40.8  |                  |
| second        | 0-5           | 1                 | 7     | 32    | 26    | 20    | 8     | 0     | 12    | 122              |
|               | 5-10          | -                 | 0     | 8     | 3     | 2     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 3     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 1                 | 7     | 40    | 32    | 22    | 8     | 0     | 12    |                  |
|               | $\bar{N}/N^2$ | 5.1               | 35.7  | 204   | 163.2 | 112.2 | 40.8  | 0     | 61.2  |                  |
| third         | 0-5           | 1                 | 0     | 90    | 112   | 38    | 16    | 12    | 20    | 343              |
|               | 5-10          | -                 | 0     | 26    | 18    | 12    | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 5     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 3     | -     | -     | -     | -     |                  |
|               | Total         | 1                 | 0     | 106   | 138   | 50    | 16    | 12    | 20    |                  |
|               | $\bar{N}/N^2$ | 5.1               | 0     | 540.6 | 703.8 | 255   | 81.6  | 61.2  | 102   |                  |
| fourth        | 0-5           | 1                 | 0     | 8     | 2     | 0     | 0     | 0     | 0     | 11               |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|               | Total         | 1                 | 0     | 8     | 2     | 0     | 0     | 0     | 0     |                  |
|               | $\bar{N}/N^2$ | 5.1               | 0     | 40.8  | 10.2  | 0     | 0     | 0     | 0     |                  |
| TOTAL         |               | 4                 | 7     | 170   | 182   | 82    | 24    | 12    | 40    | 521              |
| $\bar{N}/N^2$ |               | 20.4              | 35.7  | 867   | 928.2 | 418.2 | 122.4 | 61.2  | 204   |                  |

TABLE 30

Chub Lake Chaoborus

SPECIES: Chaoborus flavicans

DATE: 17/8/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 8     | 2     | 0     | 10               |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 8     | 2     | 0     |                  |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 40.8  | 10.2  | 0     |                  |
| second           | 0-5              | 6                 | 36    | 0     | 0     | 2     | 0     | 0     | 16    | 63               |
|                  | 5-10             | -                 | 3     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 6                 | 39    | 0     | 0     | 2     | 0     | 0     | 16    |                  |
|                  | g/m <sup>2</sup> | 30.6              | 198.9 | 0     | 0     | 10.2  | 0     | 0     | 81.6  |                  |
| third            | 0-5              | 18                | 20    | 10    | 12    | 6     | 22    | 34    | 36    | 164              |
|                  | 5-10             | -                 | 4     | 0     | 1     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 18                | 24    | 10    | 14    | 6     | 22    | 34    | 36    |                  |
|                  | g/m <sup>2</sup> | 91.8              | 122.4 | 51    | 71.4  | 30.6  | 112.2 | 173.4 | 183.6 |                  |
| fourth           | 0-5              | 16                | 4     | 9     | 1     | 8     | 0     | 0     | 0     | 39               |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 16                | 4     | 9     | 2     | 8     | 0     | 0     | 0     |                  |
|                  | g/m <sup>2</sup> | 81.6              | 20.4  | 45.9  | 10.2  | 40.8  | 0     | 0     | 0     |                  |
| TOTAL            |                  | 40                | 67    | 19    | 16    | 16    | 30    | 36    | 52    | 276              |
| g/m <sup>2</sup> |                  | 204               | 341.7 | 96.9  | 81.6  | 81.6  | 153   | 183.6 | 265.2 |                  |



TABLE 31

Chub Lake Chaoborus  
 SPECIES: Chaoborus flavicans  
 DATE: 24/8/82

| STATION (DEPTH M) |          |      |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|-------------------|----------|------|-------|-------|-------|-------|-------|-------|-------|------------------|
| INSTAR            | DEPTH(M) | A(5) | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first             | 0-5      | 2    | 3     | 0     | 0     | 0     | 8     | 0     | 2     |                  |
|                   | 5-10     | -    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|                   | 10-15    | -    | -     | 0     | 1     | -     | -     | -     | -     |                  |
|                   | 15-20    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | 20-27    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | Total    | 2    | 3     | 0     | 1     | 0     | 8     | 0     | 2     | 16               |
|                   | 0/W*2    | 10.2 | 15.3  | 0     | 5.1   | 0     | 40.8  | 0     | 10.2  |                  |
| second            | 0-5      | 4    | 6     | 5     | 0     | 3     | 0     | 16    | 8     |                  |
|                   | 5-10     | -    | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                   | 10-15    | -    | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                   | 15-20    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | 20-27    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | Total    | 4    | 6     | 5     | 0     | 3     | 0     | 16    | 8     | 42               |
|                   | 0/W*2    | 20.4 | 30.6  | 25.5  | 0     | 15.3  | 0     | 81.6  | 40.8  |                  |
| third             | 0-5      | 12   | 16    | 11    | 0     | 17    | 22    | 12    | 14    |                  |
|                   | 5-10     | -    | 0     | 5     | 3     | 0     | -     | 0     | 0     |                  |
|                   | 10-15    | -    | -     | 2     | 2     | -     | -     | -     | -     |                  |
|                   | 15-20    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | 20-27    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | Total    | 12   | 16    | 18    | 5     | 17    | 22    | 12    | 14    | 116              |
|                   | 0/W*2    | 61.2 | 81.6  | 91.8  | 25.5  | 86.7  | 112.2 | 61.2  | 71.4  |                  |
| fourth            | 0-5      | 2    | 3     | 6     | 0     | 14    | 0     | 9     | 5     |                  |
|                   | 5-10     | -    | 1     | 4     | 0     | 5     | -     | 0     | 0     |                  |
|                   | 10-15    | -    | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                   | 15-20    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | 20-27    | -    | -     | -     | 0     | -     | -     | -     | -     |                  |
|                   | Total    | 2    | 4     | 10    | 0     | 19    | 0     | 9     | 5     | 49               |
|                   | 0/W*2    | 10.2 | 20.4  | 51    | 0     | 96.9  | 0     | 45.9  | 25.5  |                  |
| TOTAL             |          | 20   | 29    | 33    | 6     | 39    | 30    | 33    | 29    | 223              |
| 0/W*2             |          | 102  | 147.9 | 168.3 | 30.6  | 198.9 | 153   | 168.3 | 147.9 |                  |

TABLE 32

Chub Lake ChaoborusSPECIES: Chaoborus flavicans

DATE: 31/8/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first            | 0-5              | 1                 | 1     | 0     | 0     | 0     | 0     | 0     | 4     | 6                |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 1                 | 1     | 0     | 0     | 0     | 0     | 0     | 4     |                  |
|                  | g/m <sup>2</sup> | 5.1               | 5.1   | 0     | 0     | 0     | 0     | 0     | 20.4  |                  |
| second           | 0-5              | 1                 | 0     | 4     | 6     | 1     | 8     | 0     | 0     | 20               |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 1                 | 0     | 4     | 6     | 1     | 8     | 0     | 0     |                  |
|                  | g/m <sup>2</sup> | 5.1               | 0     | 20.4  | 30.6  | 5.1   | 40.8  | 0     | 0     |                  |
| third            | 0-5              | 5                 | 7     | 12    | 36    | 4     | 40    | 12    | 8     | 125              |
|                  | 5-10             | -                 | 0     | 1     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 5                 | 7     | 13    | 36    | 4     | 40    | 12    | 8     |                  |
|                  | g/m <sup>2</sup> | 25.5              | 35.7  | 66.3  | 183.6 | 20.4  | 204   | 61.2  | 40.8  |                  |
| fourth           | 0-5              | 4                 | 24    | 24    | 8     | 12    | 0     | 8     | 0     | 90               |
|                  | 5-10             | -                 | 0     | 2     | 0     | 8     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 4                 | 24    | 26    | 8     | 20    | 0     | 8     | 0     |                  |
|                  | g/m <sup>2</sup> | 20.4              | 122.4 | 132.6 | 40.8  | 102   | 0     | 40.8  | 0     |                  |
| TOTAL            |                  | 11                | 32    | 43    | 50    | 25    | 48    | 20    | 12    | 241              |
| g/m <sup>2</sup> |                  | 56.1              | 163.2 | 219.3 | 235   | 127.5 | 448.8 | 102   | 61.2  |                  |

Chub Lake Chaoborus  
SPECIES: Chaoborus flavicans  
DATE: 14/9/82

TABLE 33

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 1     | 4     | 0     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 1     | 4     | 0     | 0     | 0     | 0     | 5                |
|        | 8/M*2    | 0                 | 0     | 5.1   | 20.4  | 0     | 0     | 0     | 0     |                  |
| second | 0-5      | 0                 | 2     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 2     | 0     | 0     | 0     | 0     | 0     | 0     | 2                |
|        | 8/M*2    | 0                 | 10.2  | 0     | 0     | 0     | 0     | 0     | 0     |                  |
| third  | 0-5      | 2                 | 2     | 3     | 24    | 8     | 8     | 0     | 1     |                  |
|        | 5-10     | -                 | 1     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 1     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 2                 | 3     | 4     | 24    | 8     | 8     | 0     | 1     | 50               |
|        | 8/M*2    | 10.2              | 15.3  | 20.4  | 122.4 | 40.8  | 40.8  | 0     | 5.1   |                  |
| fourth | 0-5      | 0                 | 3     | 14    | 28    | 8     | 46    | 8     | 10    |                  |
|        | 5-10     | -                 | 2     | 4     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 1     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 5     | 19    | 28    | 8     | 46    | 8     | 10    | 124              |
|        | 8/M*2    | 0                 | 25.5  | 96.9  | 142.8 | 40.8  | 234.6 | 40.8  | 51    |                  |
| TOTAL  |          | 2                 | 10    | 24    | 56    | 16    | 54    | 8     | 11    | 181              |
| 8/M*2  |          | 10.5              | 51    | 122.4 | 285.6 | 81.6  | 275.4 | 40.8  | 56.1  |                  |

TABLE 34

Chub Lake ChaoborusSPECIES: Chaoborus flavicans

DATE: 30/9/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 1     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 1     | 1                |
|        | 8/N*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 5.1   |                  |
| second | 0-5      | 1                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 1                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 1                |
|        | 8/N*2    | 5.1               | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 1     | 2     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 1     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 1     | 0    | 1     | 2     | 4                |
|        | 8/N*2    | 0                 | 0     | 0     | 0     | 5.1   | 0    | 5.1   | 10.2  |                  |
| fourth | 0-5      | 19                | 6     | 12    | 14    | 1     | 0    | 0     | 10    |                  |
|        | 5-10     | -                 | 2     | 0     | 5     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 3     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 1     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 19                | 8     | 12    | 23    | 1     | 0    | 0     | 10    | 73               |
|        | 8/N*2    | 94.9              | 40.8  | 61.2  | 117.3 | 5.1   | 0    | 0     | 51    |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 20                | 8     | 12    | 23    | 2     | 0    | 1     | 13    | 79               |
| 8/N*2  |          | 102               | 40.8  | 61.2  | 117.3 | 10.2  | 0    | 5.1   | 66.3  |                  |

TABLE 35

Chub Lake Chaboborus

SPECIES: Chaboborus flavicans

DATE: 28/10/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 1     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 1     | 0     | 0    | 0     | 0     | 1                |
|        | #/M^2    | 0                 | 0     | 0     | 5.1   | 0     | 0    | 0     | 0     |                  |
| fourth | 0-5      | 3                 | 1     | 7     | 1     | 16    | 0    | 0     | 1     |                  |
|        | 5-10     | -                 | 0     | 3     | 2     | 5     | -    | 0     | 1     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 3                 | 1     | 10    | 3     | 21    | 0    | 0     | 2     | 40               |
|        | #/M^2    | 15.3              | 5.1   | 51    | 15.3  | 107.1 | 0    | 0     | 10.2  |                  |
| TOTAL  |          | 3                 | 1     | 10    | 4     | 21    | 0    | 0     | 2     | 41               |
| #/M^2  |          | 15.3              | 5.1   | 51    | 15.3  | 107.1 | 0    | 0     | 10.2  |                  |

TABLE 36

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 3/6/82

| INSTAR        | DEPTH(N)      | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|               | $\bar{N}/N^2$ | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second        | 0-5           | 0                 | 4     | 7     | 10    | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 2     | 0     | 1     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 1     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 6     | 8     | 11    | 0     | 0    | 0     | 0     | 25               |
|               | $\bar{N}/N^2$ | 0                 | 30.6  | 40.8  | 56.1  | 0     | 0    | 0     | 0     |                  |
| third         | 0-5           | 1                 | 19    | 31    | 34    | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 3     | 3     | 8     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 2     | 3     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 1                 | 22    | 36    | 45    | 0     | 0    | 0     | 0     | 104              |
|               | $\bar{N}/N^2$ | 5.1               | 112.2 | 183.6 | 229.5 | 0     | 0    | 0     | 0     |                  |
| fourth        | 0-5           | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 2     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 0     | 2     | 0     | 0     | 0    | 0     | 0     | 2                |
|               | $\bar{N}/N^2$ | 0                 | 0     | 10.2  | 0     | 0     | 0    | 0     | 0     |                  |
| <hr/>         |               |                   |       |       |       |       |      |       |       |                  |
| TOTAL         |               | 1                 | 28    | 46    | 56    | 0     | 0    | 0     | 0     | 131              |
| $\bar{N}/N^2$ |               | 5.1               | 142.8 | 234.6 | 933.7 | 0     | 0    | 0     | 0     |                  |

TABLE 37

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 8/6/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second           | 0-5              | 2                 | 5     | 3     | 2     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 3     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 2     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 2                 | 5     | 8     | 2     | 0     | 0    | 0     | 0     | 17               |
|                  | #/M <sup>2</sup> | 10.2              | 25.5  | 40.8  | 10.2  | 0     | 0    | 0     | 0     |                  |
| third            | 0-5              | 6                 | 25    | 17    | 26    | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 3     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 6                 | 25    | 20    | 26    | 0     | 0    | 0     | 0     | 77               |
|                  | #/M <sup>2</sup> | 30.6              | 127.5 | 102   | 132.6 | 0     | 0    | 0     | 0     |                  |
| fourth           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| TOTAL            |                  | 8                 | 30    | 28    | 28    | 0     | 0    | 0     | 0     | 94               |
| #/M <sup>2</sup> |                  | 40.8              | 153   | 142.8 | 142.8 | 0     | 0    | 0     | 0     |                  |

TABLE 38

Chub Lake Chaoborus  
 SPECIES: Chaoborus trivittatus  
 DATE: 15/6/82

| INSTAR | DEPTH(N) | STATION (DEPTH N) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                |
|        | 8/N*2    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                |
|        | 8/N*2    | 0                 | 0     | 0     | 0     | 0     | 0     | 0     | 0     |                  |
| third  | 0-5      | 2                 | 3     | 9     | 22    | 34    | 25    | 82    | 0     |                  |
|        | 5-10     | -                 | 0     | 1     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 2                 | 3     | 10    | 22    | 34    | 25    | 82    | 0     | 178              |
|        | 8/N*2    | 10.2              | 15.3  | 51    | 112.2 | 173.4 | 127.5 | 418.2 | 0     |                  |
| fourth | 0-5      | 0                 | 0     | 5     | 9     | 6     | 3     | 11    | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|        | Total    | 0                 | 0     | 5     | 9     | 6     | 3     | 11    | 0     | 34               |
|        | 8/N*2    | 0                 | 0     | 25.5  | 45.9  | 30.6  | 15.3  | 56.1  | 0     |                  |
| TOTAL  |          | 2                 | 3     | 15    | 31    | 40    | 28    | 93    | 0     | 212              |
| 8/N*2  |          | 10.2              | 15.3  | 76.5  | 158.1 | 204   | 142.8 | 474.3 | 0     |                  |



TABLE 39

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 22/6/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 3     | 2     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 2     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 5     | 2     | 0     | 0     | 0    | 0     | 0     | 7                |
|        | #/M^2    | 0                 | 25.5  | 10.2  | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 2                 | 2     | 15    | 12    | 6     | 12   | 12    | 7     |                  |
|        | 5-10     | -                 | 5     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 2                 | 7     | 15    | 12    | 6     | 12   | 12    | 7     | 73               |
|        | #/M^2    | 10.2              | 35.7  | 76.5  | 61.2  | 30.6  | 61.6 | 61.6  | 35.7  |                  |
| fourth | 0-5      | 0                 | 6     | 22    | 12    | 8     | 0    | 1     | 10    |                  |
|        | 5-10     | -                 | 0     | 0     | 1     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 1     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 1     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 6     | 23    | 14    | 8     | 0    | 1     | 10    | 62               |
|        | #/M^2    | 0                 | 30.6  | 117.3 | 71.4  | 40.8  | 0    | 5.1   | 51    |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 2                 | 18    | 40    | 26    | 14    | 12   | 13    | 17    | 142              |
| #/M^2  |          | 10.2              | 918   | 204   | 132.6 | 71.4  | 61.2 | 66.3  | 86.7  |                  |

TABLE 40

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 29/6/82

| INSTAR        | DEPTH(M)      | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|---------------|---------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|               |               | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first         | 0-5           | 0                 | 0     | 0     | 1     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 0     | 0     | 1     | 0     | 0    | 0     | 0     | 1                |
|               | $\bar{N}/N^2$ | 0                 | 0     | 0     | 5.1   | 0     | 0    | 0     | 0     |                  |
| second        | 0-5           | 0                 | 2     | 0     | 1     | 0     | 0    | 0     | 0     |                  |
|               | 5-10          | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 2     | 0     | 1     | 0     | 0    | 0     | 0     | 3                |
|               | $\bar{N}/N^2$ | 0                 | 10.2  | 0     | 5.1   | 0     | 0    | 0     | 0     |                  |
| third         | 0-5           | 0                 | 11    | 3     | 14    | 8     | 0    | 3     | 0     |                  |
|               | 5-10          | -                 | 0     | 1     | 1     | 1     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 2     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 0                 | 11    | 6     | 15    | 9     | 0    | 3     | 0     | 44               |
|               | $\bar{N}/N^2$ | 0                 | 56.1  | 30.6  | 76.5  | 45.9  | 0    | 15.3  | 0     |                  |
| fourth        | 0-5           | 1                 | 10    | 8     | 24    | 2     | 0    | 17    | 0     |                  |
|               | 5-10          | -                 | 0     | 3     | 2     | 0     | -    | 0     | 0     |                  |
|               | 10-15         | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|               | 15-20         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | 20-27         | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|               | Total         | 1                 | 10    | 11    | 26    | 2     | 0    | 17    | 0     | 67               |
|               | $\bar{N}/N^2$ | 5.1               | 51    | 4.1   | 132.6 | 10.2  | 0    | 86.7  | 0     |                  |
| <hr/>         |               |                   |       |       |       |       |      |       |       |                  |
| TOTAL         |               | 1                 | 23    | 17    | 43    | 11    | 0    | 20    | 0     | 115              |
| $\bar{N}/N^2$ |               | 5.1               | 117.3 | 86.7  | 219.3 | 56.1  | 0    | 102   | 0     |                  |

TABLE 41

Chub Lake Chaoborus:SPECIES: Chaoborus trivittatus

DATE: 6/7/82

| INSTAR           | DEPTH(N)         | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 2     | 0     | 4    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 2     | 0     | 4    | 0     | 0     | 6                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 10.2  | 0     | 20.4 | 0     | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third            | 0-5              | 8                 | 4     | 5     | 0     | 1     | 0    | 6     | 6     |                  |
|                  | 5-10             | -                 | 0     | 0     | 3     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 8                 | 4     | 5     | 3     | 1     | 0    | 6     | 6     | 34               |
|                  | #/M <sup>2</sup> | 40.8              | 20.4  | 25.5  | 15.3  | 5.1   | 0    | 30.6  | 30.6  |                  |
| fourth           | 0-5              | 16                | 1     | 4     | 12    | 3     | 0    | 22    | 0     |                  |
|                  | 5-10             | -                 | 1     | 10    | 5     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 16                | 2     | 14    | 17    | 3     | 0    | 22    | 0     | 74               |
|                  | #/M <sup>2</sup> | 81.6              | 10.2  | 71.4  | 86.7  | 15.3  | 0    | 112.2 | 0     |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 24                | 6     | 19    | 23    | 4     | 4    | 28    | 6     | 114              |
| #/M <sup>2</sup> |                  | 122.4             | 30.6  | 96.9  | 117.3 | 20.4  | 20.4 | 142.8 | 30.6  |                  |

TABLE 42

Chub Lake ChaborusSPECIES: Chaborus trivittatus

DATE: 13/7/82

| INSTAR           | DEPTH (M)        | STATION (DEPTH M) |       |       |       |       |       |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5)  | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 4     | 1     | 1     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 4     | 1     | 1     | 6                |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 20.4  | 5.1   | 5.1   |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 20    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 20    | 0     | 0     | 20               |
|                  | g/m <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 102   | 0     | 0     |                  |
| third            | 0-5              | 0                 | 1     | 0     | 4     | 0     | 0     | 1     | 0     |                  |
|                  | 5-10             | -                 | 1     | 0     | 0     | 0     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 2     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 0                 | 2     | 2     | 4     | 0     | 0     | 1     | 0     | 9                |
|                  | g/m <sup>2</sup> | 0                 | 10.2  | 10.2  | 20.4  | 0     | 0     | 5.1   | 0     |                  |
| fourth           | 0-5              | 1                 | 2     | 0     | 12    | 40    | 0     | 43    | 6     |                  |
|                  | 5-10             | -                 | 2     | 4     | 16    | 4     | -     | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 4     | 0     | -     | -     | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 1     | -     | -     | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -     | -     | -     |                  |
|                  | Total            | 1                 | 4     | 8     | 29    | 44    | 0     | 43    | 6     | 135              |
|                  | g/m <sup>2</sup> | 5.1               | 20.4  | 40.8  | 147.9 | 224.4 | 0     | 219.3 | 30.6  |                  |
| TOTAL            |                  | 1                 | 6     | 10    | 33    | 44    | 24    | 46    | 6     | 170              |
| g/m <sup>2</sup> |                  | 5.1               | 30.6  | 51    | 168.3 | 224.4 | 122.4 | 234.6 | 30.6  |                  |

TABLE 43

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 20/7/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second           | 0-5              | 16                | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 16                | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 16               |
|                  | #/M <sup>2</sup> | 81.6              | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third            | 0-5              | 8                 | 0     | 0     | 0     | 0     | 0    | 2     | 0     |                  |
|                  | 5-10             | -                 | 1     | 0     | 0     | 1     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 8                 | 1     | 0     | 0     | 1     | 0    | 2     | 0     | 12               |
|                  | #/M <sup>2</sup> | 40.8              | 5.1   | 0     | 0     | 5.1   | 0    | 10.2  | 0     |                  |
| fourth           | 0-5              | 16                | 3     | 14    | 69    | 0     | 0    | 6     | 0     |                  |
|                  | 5-10             | -                 | 3     | 9     | 4     | 1     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 1     | 1     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 16                | 6     | 24    | 74    | 1     | 0    | 6     | 0     | 127              |
|                  | #/M <sup>2</sup> | 81.6              | 30.6  | 122.4 | 377.4 | 5.1   | 0    | 30.6  | 0     |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 40                | 7     | 24    | 74    | 2     | 0    | 8     | 0     | 155              |
| #/M <sup>2</sup> |                  | 204               | 35.7  | 12.4  | 377.4 | 10.2  | 0    | 40.8  | 0     |                  |

TABLE 44

Chub Lake Chaoborus

SPECIES: *Chaoborus trivittatus*

DATE: 27/7/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 4    | 4     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 1     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 1     | 0     | 4    | 4     | 0     | 9                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 5.1   | 0     | 20.4 | 20.4  | 0     |                  |
| third            | 0-5              | 0                 | 0     | 2     | 0     | 0     | 0    | 4     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 2     | 0     | 0     | 0    | 4     | 0     | 6                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 10.2  | 0     | 0     | 0    | 20.4  | 0     |                  |
| fourth           | 0-5              | 0                 | 2     | 16    | 4     | 0     | 0    | 32    | 24    |                  |
|                  | 5-10             | -                 | 0     | 14    | 2     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 1     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 2     | 31    | 6     | 0     | 0    | 32    | 24    | 95               |
|                  | #/M <sup>2</sup> | 0                 | 10.2  | 158.1 | 30.6  | 0     | 0    | 163.2 | 122.4 |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 0                 | 2     | 33    | 7     | 0     | 4    | 40    | 24    | 110              |
| #/M <sup>2</sup> |                  | 0                 | 10.2  | 168.3 | 35.7  | 0     | 20.4 | 204   | 122.4 |                  |

TABLE 45

Chub Lake Chaoborus

SPECIES: Chaoborus trivittatus

DATE: 3/8/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| fourth | 0-5      | 0                 | 3     | 23    | 4     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 2     | 1     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 5     | 24    | 4     | 0     | 0    | 0     | 0     | 33               |
|        | #/M^2    | 0                 | 25.5  | 122.4 | 20.4  | 0     | 0    | 0     | 0     |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 0                 | 5     | 24    | 4     | 0     | 0    | 0     | 0     | 33               |
| #/M^2  |          | 0                 | 25.5  | 122.4 | 20.4  | 0     | 0    | 0     | 0     |                  |

TABLE 46

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 10/8/82

| INSTAR           | DEPTH (M)        | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 12    | 4     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 12    | 4     | 16               |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 112.2 | 20.4  |                  |
| third            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 2     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 2     | 0     | 0    | 0     | 0     | 2                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 10.2  | 0     | 0    | 0     | 0     |                  |
| fourth           | 0-5              | 0                 | 0     | 8     | 32    | 8     | 0    | 4     | 32    |                  |
|                  | 5-10             | -                 | 1     | 0     | 5     | 16    | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 1     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 1     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 1     | 8     | 39    | 24    | 0    | 4     | 32    | 108              |
|                  | #/M <sup>2</sup> | 0                 | 5.1   | 40.8  | 198.9 | 122.4 | 0    | 20.4  | 163.2 |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 0                 | 1     | 8     | 41    | 24    | 0    | 16    | 32    | 126              |
| #/M <sup>2</sup> |                  | 0                 | 5.1   | 40.8  | 209.1 | 122.4 | 0    | 81.6  | 163.2 |                  |



TABLE 47

Chub Lake Chaoborus:SPECIES: Chaoborus trivittatus

DATE: 17/8/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 8    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 8    | 0     | 0     | 8                |
|        | #/M^2    | 0                 | 0     | 0     | 0     | 0     | 40.8 | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 1     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 1     | 0     | 0     | 0    | 0     | 0     | 1                |
|        | #/M^2    | 0                 | 0     | 5.1   | 0     | 0     | 0    | 0     | 0     |                  |
| fourth | 0-5      | 0                 | 4     | 6     | 36    | 24    | 0    | 16    | 8     |                  |
|        | 5-10     | -                 | 0     | 4     | 0     | 1     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 2     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 1     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 4     | 12    | 37    | 25    | 0    | 16    | 8     | 102              |
|        | #/M^2    | 0                 | 20.4  | 66.3  | 188.7 | 127.5 | 0    | 81.6  | 40.8  |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 0                 | 4     | 13    | 37    | 25    | 8    | 16    | 8     | 111              |
| #/M^2  |          | 0                 | 20.4  | 66.3  | 188.7 | 127.5 | 40.8 | 81.6  | 40.8  |                  |

TABLE 48

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 24/8/82

| INSTAR           | DEPTH(M)         | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 4    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 4    | 0     | 0     | 4                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 20.4 | 0     | 0     |                  |
| third            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| fourth           | 0-5              | 4                 | 6     | 10    | 8     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 1     | 2     | 8     | 2     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 8     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 8     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 8     | -     | -    | -     | -     |                  |
|                  | Total            | 4                 | 7     | 12    | 165   | 2     | 0    | 0     | 0     | 190              |
|                  | #/M <sup>2</sup> | 20.4              | 35.7  | 112.2 | 841.5 | 10.2  | 0    | 0     | 0     |                  |
| <hr/>            |                  |                   |       |       |       |       |      |       |       |                  |
| TOTAL            |                  | 4                 | 7     | 12    | 165   | 2     | 4    | 0     | 0     | 194              |
| #/M <sup>2</sup> |                  | 20.4              | 35.7  | 61.2  | 841.5 | 10.2  | 20.4 | 0     | 0     |                  |

TABLE 49

Chub Lake Chaoborus:SPECIES: Chaoborus trivittatus

DATE: 31/8/82

| INSTAR | DEPTH(N) | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | #/M*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 1     | 0     | 1     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 1     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 2     | 0     | 1     | 0    | 0     | 0     | 3                |
|        | #/M*2    | 0                 | 0     | 10.2  | 0     | 5.1   | 0    | 0     | 0     |                  |
| fourth | 0-5      | 0                 | 16    | 7     | 16    | 1     | 0    | 8     | 0     |                  |
|        | 5-10     | -                 | 4     | 2     | 2     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 1     | 3     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 20    | 8     | 21    | 1     | 0    | 8     | 0     | 58               |
|        | #/M*2    | 0                 | 102   | 40.8  | 107.1 | 5.1   | 0    | 40.8  | 0     |                  |
| <hr/>  |          |                   |       |       |       |       |      |       |       |                  |
| TOTAL  |          | 0                 | 20    | 10    | 21    | 2     | 0    | 8     | 0     | 61               |
| #/M*2  |          | 0                 | 104   | 51    | 107.1 | 10.2  | 0    | 40.8  | 0     |                  |

TABLE 50

Chub Lake ChaoborusSPECIES: Chaoborus trivittatus

DATE: 14/9/82

| INSTAR           | DEPTH(N)         | STATION (DEPTH N) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|------------------|------------------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|                  |                  | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| second           | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third            | 0-5              | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 2     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 2     | 0     | 0     | 0    | 0     | 0     | 2                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 10.2  | 0     | 0     | 0    | 0     | 0     |                  |
| fourth           | 0-5              | 0                 | 0     | 1     | 0     | 0     | 0    | 0     | 6     |                  |
|                  | 5-10             | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|                  | 10-15            | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|                  | 15-20            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | 20-27            | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|                  | Total            | 0                 | 0     | 1     | 0     | 0     | 0    | 0     | 6     | 7                |
|                  | #/M <sup>2</sup> | 0                 | 0     | 5.1   | 0     | 0     | 0    | 0     | 30.6  |                  |
| TOTAL            |                  | 0                 | 0     | 3     | 0     | 0     | 0    | 0     | 6     | 9                |
| #/M <sup>2</sup> |                  | 0                 | 0     | 15.3  | 0     | 0     | 0    | 0     | 30.6  |                  |

Chub Lake Chaborus  
SPECIES: Chaoborus trivittatus  
DATE: 30/9/82

[illegible]

TABLE 52

Chub Lake: Chaoborus  
 SPECIES: Chaoborus trivittatus  
 DATE: 14/10/82

| INSTAR | DEPTH(M) | STATION (DEPTH M) |       |       |       |       |      |       |       | INSTAR<br>TOTALS |
|--------|----------|-------------------|-------|-------|-------|-------|------|-------|-------|------------------|
|        |          | A(5)              | B(10) | C(15) | D(23) | E(10) | F(5) | G(10) | H(10) |                  |
| first  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 6     | 9     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 2     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 6     | 11    | 0     | 0    | 0     | 0     | 17               |
|        | 4/M*2    | 0                 | 0     | 30.6  | 56.1  | 0     | 0    | 0     | 0     |                  |
| second | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | 4/M*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| third  | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 1     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 1     | 0     | 0    | 0     | 0     | 1                |
|        | 4/M*2    | 0                 | 0     | 0     | 5.1   | 0     | 0    | 0     | 0     |                  |
| fourth | 0-5      | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
|        | 5-10     | -                 | 0     | 0     | 0     | 0     | -    | 0     | 0     |                  |
|        | 10-15    | -                 | -     | 0     | 0     | -     | -    | -     | -     |                  |
|        | 15-20    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | 20-27    | -                 | -     | -     | 0     | -     | -    | -     | -     |                  |
|        | Total    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     | 0                |
|        | 4/M*2    | 0                 | 0     | 0     | 0     | 0     | 0    | 0     | 0     |                  |
| TOTAL  |          | 0                 | 0     | 6     | 12    | 0     | 0    | 0     | 0     | 18               |
| 4/M*2  |          | 0                 | 0     | 30.6  | 61.2  | 0     | 0    | 0     | 0     |                  |

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